

1. Introduction

The Hospital ERP System provides a **modular subscription model**.

Hospitals subscribe to **only the modules they need**, while the **number of staff determines subscription cost scaling**.

- **Flexibility** → Hospitals pick features they need.
- **Scalability** → Pricing adjusts as staff grows.
- **Smart Dependencies** → Related modules auto-included.
- **Role Mapping** → Each module defines required roles & responsibilities.

2. Subscription Model

2.1 Feature-Based

- Hospitals select **any combination of modules**.
- Dependencies are **auto-added**.

Example:

- If hospital selects **EMR**, system also adds **Patient Info**.
- If hospital selects **Insurance Claims**, system also adds **Billing & Patient Info**.

2.2 Staff-Size Based Pricing

Staff Range	License Type	Pricing Impact
1–10	Small Clinic License	Base price (x1)
11–20	Small Hospital License	Base × 1.5
21–50	Medium Hospital License	Base × 2
51–100	Large Hospital License	Base × 3
101+	Enterprise License	Base × 5 + Custom add-ons

3. Module List with Dependencies & Roles

Module	Dependencies	Submodules	Roles Involved
Patient Information Management	None	Registration, Demographics	Receptionist, Admin
Electronic Medical Records (EMR)	Patient Info	Clinical notes, Prescriptions, History	Doctor, Nurse
OPD & IPD Management	Patient Info, Billing	Admissions, Bed allocation, Discharge	Doctor, Nurse
Appointment Scheduling	Patient Info	Doctor calendar, Reminders	Receptionist, Patient
Healthcare Billing & Accounting	Patient Info, OPD/IPD	Invoices, Payments	Accounts, Admin
Insurance Claims Management	Billing, Patient Info	Claim submission, Tracking	Insurance Officer, Accounts
Human Resource Management	None	Payroll, Shifts, Staff database	HR Staff, Admin
Pharmaceutical System	Inventory, Billing	Drug catalog, Dispensing	Pharmacist, Doctor
Inventory & Procurement	Billing, Pharmacy, Lab	Stock management, Vendors	Store Manager, Procurement Officer
Laboratory Information (LIMS)	Patient Info, EMR	Test catalog, Reports	Lab Tech, Doctor
Radiology Information	Patient Info, EMR	Imaging orders, Storage	Radiologist, Doctor
Immunization Tracking	Patient Info, EMR	Vaccination schedule	Nurse, Doctor
Data Analytics & Reporting	All active modules	Dashboards, Reports	Management, Admin

4. Subscription Flow (User-Friendly)

1. **Hospital selects staff size** → Pricing tier applied.
2. **Hospital selects modules** → Any feature can be chosen.
3. **System auto-checks dependencies** → Adds missing required modules.
 - e.g., Choosing Radiology auto-adds Patient Info + EMR.
4. **System auto-assigns roles** → Maps staff functions to modules.
 - e.g., Choosing Lab → Assigns Lab Technician role.
5. **Final summary** → Shows:
 - Selected modules
 - Auto-added modules
 - Role mapping
 - Pricing (based on staff count)
6. **Activate subscription** → ERP configured for the hospital.

5. Example Scenarios

Scenario 1: Small Clinic (5 staff)

- Chooses: Appointment Scheduling + Billing.
- System adds: Patient Info (dependency).
- Roles: Receptionist (appointments), Accounts (billing).

Scenario 2: Medium Hospital (35 staff)

- Chooses: OPD/IPD + EMR + Pharmacy.
- System adds: Patient Info, Billing, Inventory.
- Roles: Doctors (EMR/OPD), Nurses (IPD), Pharmacist (Pharmacy), Store Manager (Inventory).

Scenario 3: Enterprise Hospital (120 staff)

- Chooses: All modules.
- System assigns: Specialized roles (Lab Tech, Radiologist, Insurance Officer, HR Staff, etc.).
- Pricing: Enterprise License (highest).

Hospital ERP - Feature Based Subscription Flow

